Glossary

The glossary lists acronyms and terms with Army or joint definitions, and other selected terms. Where Army and joint definitions are different, (Army) follows the term. Terms for which FM 3-52 is the proponent manual (the authority) are marked with an asterisk (*). The proponent manual for other terms is listed in parentheses after the definition.

*A2C2	Army airspace command and control
AADC	area air defense commander
AAGS	Army Air-Ground System
AAMDC	Army air and missile defense command
AAW	antiair warfare
ABCCC	airborne battlefield command and control center
ABCS	Army Battle Command System
ACA	airspace control authority
ACE	aviation combat element Marine air-ground task force (MAGTF)
ACM	airspace control measure
ACO	airspace control order
ACP	airspace control plan; air control point (graphics only)
AD	air defense
ADA	air defense artillery
ADC	air defense commander (graphics only)
ADIZ	air defense identification zone
ADLS	air defense liaison section
ADRG	ARC digitized raster graphics
ADSI	Air Defense System Integrator
AFARN	Air Force air request net
AFATDS	Advanced Field Artillery Tactical Data System
AFFOR	Air Force forces
AFLE	Air Force Liaison Element
AFSOC	Air Force special operations commander (graphics only)

AIC

airspace information center

*air control point

(Army) an easily identifiable point on the terrain or an electronic navigational aid used to provide necessary control during air movement. Air control points are generally designated at each point where the flight route or air corridor makes a definite change in any direction and at any other point deemed necessary for timing or control of the operation.

air corridor

a restricted air route of travel specified for use by friendly aircraft and established for the purpose of preventing friendly aircraft from being fired on by friendly forces (JP 3-52)

air defense identification zone airspace of defined dimensions within which the ready identification, location, and control of airborne vehicles are required (JP 3-52)

air defense warning conditions

a degree of air raid probability according to the following code. The term air defense division/sector referred to herein may include forces and units afloat and/or deployed to forward areas, as applicable. Air defense warning yellow-attack by hostile aircraft and/or missiles is probable. This means that hostile aircraft and/or missiles are en route toward an air defense division/sector, or unknown aircraft and/or missiles suspected to be hostile are en route toward or are within an air defense division/sector. Air defense warning red—attack by hostile aircraft and/or missiles is imminent or is in progress. This means that hostile aircraft and/or missiles are within an air defense division/sector or are in the immediate vicinity of an air defense division/sector with high probability of entering the division/sector. Air defense warning white—attack by hostile aircraft and/or missiles is improbable. May be called either before or after air defense warning yellow or red. The initial declaration of air defense emergency will automatically establish a condition of air defense warning other than white for purposes of security control of air traffic. (JP 1-02)

air defense

all defensive measures designed to destroy attacking enemy aircraft or missiles in the Earth's envelope of atmosphere, or to nullify or reduce the effectiveness of such attack (JP 3-56.1)

air liaison officer

an officer (aviator/pilot or naval flight officer) attached to a ground unit who functions as the primary advisor to the ground commander on air operation matters (JP 1-02)

air operations center

the principal air operations installation from which aircraft and air warning functions of combat air operations are directed, controlled, and executed. It is the senior agency of the Air Force Component Commander from which command and control of air operations are coordinated with other components and Services. (JP 3-56.1)

airspace control

asee airspace control in the combat zone

airspace control area

airspace which is laterally defined by the boundaries of the area of operations. The airspace control area may be subdivided into airspace control sectors. (JP 3-52)

airspace control authority the commander designated to assume overall responsibility for

the operation of the airspace control system in the airspace con-

trol area (JP 3-52)

airspace control in the combat zone a process used to increase combat effectiveness by

promoting the safe, efficient, and flexible use of airspace. Airspace control is provided in order to prevent fratricide, enhance air defense operations, and permit greater flexibility of operations. Airspace control does not infringe on the authority vested in commanders to approve, disapprove, or deny combat operations.

(JP 3-52)

airspace control measures rules, mechanisms, and directions governed by joint doctrine and

defined by the airspace control plan which control the use of air-

space of specified dimensions (FM 1-02)

airspace control order an order implementing the airspace control plan that provides the

details of the approved requests for airspace control measures. It is published either as part of the air tasking order or as a sepa-

rate document. (JP 3-56.1)

airspace control plan the document approved by the joint force commander that pro-

vides specific planning guidance and procedures for the airspace control system for the joint force area of responsibility and/or joint

operations area (JP 3-52)

airspace coordination area a three-dimensional block of airspace in a target area, established

by the appropriate ground commander, in which friendly aircraft are reasonably safe from friendly surface fires. The airspace

coordination area may be formal or informal. (JP 1-02)

airspace management the coordination, integration, and regulation of the use of airspace

of defined dimensions (JP 3-52)

air support operations center an agency of a tactical air control system collocated with a

corps headquarters or an appropriate land force headquarters, which coordinates and directs close air support and other tactical

air support (JP 1-02)

air tasking order a method used to task and disseminate to components, subordi-

nate units, and command and control agencies projected sorties, capabilities and/or forces to targets and specific missions. Normally provides specific instructions to include call signs, targets, controlling agencies, etc., as well as general instructions

(JP 3-56.1)

ALO air liaison officer

AMD air and missile defense

AMDPCS Air and Missile Defense Planning and Control System

AME air mobility element

AMLS airspace management liaison section

amphibious objective area a geographical area (delineated for command and control pur-

poses in the order initiating the amphibious operation) within

which is located the objective(s) to be secured by the amphibious force. This area must be of sufficient size to ensure accomplishment of the amphibious force's mission and must provide sufficient area for conducting necessary sea, air, and land operations. (JP 3-02)

AMPS Aviation Mission Planning System

ANGLICO air and naval gunfire liaison company

ANGPLT air naval gunfire platoon

AO area of operations

AOA amphibious objective area

AOC air operations center (USAF)

AOR area of responsibility

ARC equal Arc second raster Chart/map

area air defense commander within a unified command, subordinate unified command, or

joint task force, the commander will assign overall responsibility for air defense to a single commander. Normally, this will be the component commander with the preponderance of air defense capability and the command, control, and communications capability to plan and execute integrated air defense operations. Representation from the other components involved will be provided, as appropriate, to the area air defense commander's head-

quarters. (JP 3-52)

area of interest that area of concern to the commander, including the area of

influence, areas adjacent thereto, and extending into enemy territory to the objectives of current or planned operations. This area also includes areas occupied by enemy forces who could jeopardize

the accomplishment of the mission. (JP 3-0)

area of operations an operational area defined by the joint force commander for land

and naval forces. Areas of operation do not typically encompass the entire operational area of the joint force commander, but should be large enough for component commanders to accomplish

their missions and protect their forces. (JP 3-0)

area of responsibility the geographical area associated with a combatant command

within which a combatant commander has authority to plan and

conduct operations (JP 3-0)

AREC air resource element coordinator

ARFOR the senior Army headquarters and all Army forces assigned or attached to a combatant command, subordinate joint force com-

mand, joint functional command, or multinational command.

*Army airspace command and control (Army) the Army's application of airspace control to coordinate airspace users for concurrent employment in the

accomplishment of assigned missions

ARSOC Army special operations commander (graphics only)

ASAS All Source Analysis System

ASC(A) assault support coordinator (airborne)

ASOC air support operations center

ATACMS Army Tactical Missile System

ATACS (Army) Amphibious Tactical Air Control System

ATC air traffic control

ATCCS Army Tactical Command and Control System

ATDL Army tactical data link
ATK attacking (graphics only)

ATO air tasking order
ATS air traffic service

avenue of approach (Army) the air or ground route leading to an objective (or key ter-

rain in its path) that an attacking force can use (FM 3-90)

AWACS Airborne Warning and Control System

axis of advance (Army) the general area through which the bulk of a unit's com-

bat power must move (FM 3-90)

BAS battlefield automated systems

base defense zone an air defense zone established around an air base and limited to

the engagement envelope of short-range air defense weapons systems defending that base. Base defense zones have specific entry, exit, and identification, friend or foe procedures established.

(JP 3-52)

battle position (Army) a defensive location oriented on a likely enemy avenue of

approach (FM 3-90)

battlefield coordination detachment an Army liaison provided by the Army component or

force commander to the air operations center (AOC) and/or to the component designated by the joint force commander to plan, coordinate, and deconflict air operations. The battlefield coordination detachment processes Army requests for air support, monitors and interprets the land battle situation for the AOC, and provides the necessary interface for exchange of current intelligence

and operational data. (JP 1-02)

BCD battlefield coordination detachment (formerly battlefield coordi-

nation element)

BDE brigade (graphics only)

BDZ base defense zone (graphics only)

BN battalion (graphics only)

BOS battlefield operating systems

BSA brigade support area (graphics only)

C2 command and control

C2IP Command and Control Initiatives Program

C2WC command and control warfare commander

C3I command, control, communications, and intelligence

C4ISR command, control, communications, computers, intelligence, sur-

veillance, and reconnaissance

CAC Combined Arms Center

CAP combat air patrolCAS close air support

CATF commander, amphibious task force

CCP communications check point (graphics only)

CFL coordinated fire line

checkpoint (Army) a predetermined point on the ground used to control

movement, tactical maneuver, and orientation (FM 3-90)

CJCSM Chairman of the Joint Chiefs of Staff Manual

CLF commander, landing force

close air support air action by fixed- and rotary-wing aircraft against hostile tar-

gets which are in close proximity to friendly forces and that require detailed integration of each air mission with the fire and

movement of those forces (JP 3-56.1)

CLRS central launch and recovery section

Co company (graphics only)

combat air patrol an aircraft patrol provided over an objective area, the force pro-

tected, the critical area of a combat zone, or in an air defense area, for the purpose of intercepting and destroying hostile air-

craft before they reach their targets (JP 1-02)

combat service support the essential capabilities, functions, activities, and tasks neces-

sary to sustain all elements of operating forces in theater at all levels of war. Within the national and theater logistic systems, it includes but is not limited to that support rendered by service forces in ensuring the aspects of supply, maintenance, transportation, health services, and other services required by aviation and ground combat troops to permit those units to accomplish their missions in combat. Combat service support encompasses those activities at all levels of war that produce sustainment to all

operating forces on the battlefield. (JP 4-0)

combat support (Army) critical combat functions provided by units and soldiers in

conjunction with combat arms units and soldiers to secure victory

(FM 3-90)

combat zone 1. that area required by combat forces for the conduct of opera-

tions. 2. The territory forward of the Army rear area boundary.

(JP 3-52)

COMJTF commander, joint task force

command and control the exercise of authority and direction by a properly designated

commander over assigned and attached forces in the accomplishment of the mission. Command and control functions are performed through an arrangement of personnel, equipment, communications, facilities, and procedures employed by a commander in planning, directing, coordinating, and controlling forces and

operations in the accomplishment of the mission. (JP 0-2)

commander, amphibious task force the Navy officer designated in the order initiating the amphibious operation as the commander of the amphibious task-

force (JP 3-02)

commander's critical information requirements (Army) elements of information required

by commanders that directly affect decision making and dictate the successful execution of military operations (FM 3-0)

commander's intent (Army) a clear, concise statement of what the force mus

(Army) a clear, concise statement of what the force must do and the conditions the force must meet to succeed with respect to the

enemy, terrain, and the desired end state (FM 3-0)

command post (Army) a unit's headquarters where the commander and staff per-

form their activities during operations. It is often divided into echelons. The command post is the principal facility employed by

the commander to control combat operations. (FM 6-0)

common operational picture (Army) an operational picture tailored to the user's require-

ments, based on common data and information shared by more

than one command (FM 3-0)

common reference system common reference systems provide a universal, joint perspective

with which to define specific areas of the battlespace, enabling the commanders to efficiently coordinate, deconflict, integrate,

and synchronize attacks (JP 3-60)

communications checkpoint (Army) an air control point that requires serial leaders to report

either to the aviation mission commander or the terminal control

facility (FM 1-02)

COMMZ communications zone

composite warfare commander the officer in tactical command is normally the composite

warfare commander. However the composite warfare commander concept allows an officer in tactical command to delegate tactical command to the composite warfare commander. The composite warfare commander wages combat operations to counter threats to the force and to maintain tactical sea control with assets assigned; while the officer in tactical command retains close control of power projection and strategic sea control operations.

(JP 1-02)

concept of operations

(Army) describes how commanders see the actions of subordinate units fitting together to accomplish the mission. As a minimum, the description includes the scheme of maneuver and concept of fires. The concept of operations expands the commander's selected course of action and expresses how each element of the force will cooperate to accomplish the mission. (FM 3-0)

control and reporting center a center directly subordinate to the JAOC and is the senior TACS radar element responsible for decentralized execution of air defense and airspace control. The CRC provides battle management, weapons control, surveillance, identification, and link management. The CRC provides positive and procedural airspace control. The CRC is assigned a geographic sector by the JAOC, within which it manages all defensive air, offensive air and airspace management activities. The CRC is responsible for recommending changes in air defense (AD) warning conditions based on the air situation. (JP 1-02)

controlled airspace

an airspace of defined dimensions within which air traffic control service is provided to controlled flights (JP 1-02) (this manual does not use the Army definition of this term)

control measures

directives given graphically or orally by a commander to subordinate commands to assign responsibilities, coordinate fires and maneuver, and control combat operations. Each control measure can be portrayed graphically. In general, all control measures should be easily identifiable on the ground. Examples of control measures include boundaries, objectives, coordinating points, contact point, and direction of attack. (JP 1-02)

coordinated fire line

the coordinated fire line (CFL) is a line beyond which conventional, direct, and indirect surface fire support means may fire at any time within the boundaries of the establishing headquarters without additional coordination. The purpose of the CFL is to expedite the surface-to-surface attack of targets beyond the CFL without coordination with the ground commander in whose area the targets are located. (JP 3-09)

coordinating altitude

a procedural airspace control method to separate fixed- and rotary-wing aircraft by determining an altitude below which fixed-wing aircraft will normally not fly and above which rotarywing aircraft normally will not fly. The coordinating altitude is normally specified in the airspace control plan and may include a buffer zone for small altitude deviations (JP 3-52)

COP common operational picture

counterair

a mission which integrates offensive and defensive operations to attain and maintain a desired degree of air superiority. Counterair missions are designed to destroy or negate enemy aircraft and missiles, both before and after launch. (JP 3-01)

counterair operations

see counterair

 \mathbf{CP}

command post

CRC control reporting center

CRE control and reporting element

CSSCS Combat Service Support Control System

CV aircraft carrier (graphics only)CWC composite warfare commander

DASC direct air support center

DASC(A) direct air support center (airborne)

DET detachment (graphics only)

DIV division (graphics only)

DOCC deep operations coordination cell

DOD Department of Defense

DSA division support area (graphics only)

DTED digital terrain elevation data

DTSS Digital Topographic Support System

E-2C Hawkeye—airborne early warning aircraft

EA electronic attack

EAC echelons above corps

EFF effective (graphics only)

electronic warfare any military action involving the use of electromagnetic and

directed energy to control the electromagnetic spectrum or to

attack the enemy (JP 3-51)

engagement area (Army) where the commander intends to contain and destroy an

enemy force with the massed effects of all available weapons and

supporting systems (FM 3-90)

EW electronic warfare

EW/C early warning/control

FA field artillery

FAAD forward area air defense

FAC forward air controller

FAC(A) forward air controller (airborne)

FARP forward arming and refueling point

FBCB2 Force XXI Battle Command Brigade and Below

FDC fire direction center

FFA free-fire area

FFCC force fires coordination center (graphics only)

fighter engagement zone in air defense, that airspace of defined dimensions within which

the responsibility for engagement of air threats normally rests

with fighter aircraft (JP 3-52)

fire support fires that directly support land, maritime, amphibious, and

special operation forces to engage enemy forces, combat formations, and facilities in pursuit of tactical and operational objec-

tives (JP 1-02)

fire support coordinating measure a measure employed by land or amphibious commanders

to facilitate the rapid engagement of targets and simultaneously

provide safeguards for friendly forces (JP 1-02)

fire support coordination the planning and executing of fire so that targets are adequately

covered by a suitable weapon or group of weapons (JP 3-09)

fire support coordination line a fire support coordinating measure that is established and

adjusted by appropriate land or amphibious force commanders within their boundaries in consultation with superior, subordinate, supporting, and affected commanders. Fire support coordination lines (FSCLs) facilitate the expeditious attack of surface targets of opportunity beyond the coordinating measure. An FSCL does not divide an area of operations by defining a boundary between close and deep operations or a zone for close air support. The FSCL applies to all fires of air, land, and sea-based weapons systems using any type of ammunition. Forces attacking targets beyond an FSCL must inform all affected commanders in sufficient time to allow necessary reaction to avoid fratricide. Supporting elements attacking targets beyond the FSCL must ensure that the attack will not produce adverse attacks on, or to the rear of, the line. Short of an FSCL, all air-to-ground and surfaceto-surface attack operations are controlled by the appropriate land or amphibious force commander. The FSCL should follow well-defined terrain features. Coordination of attacks beyond the FSCL is especially critical to commanders of air, land, and special operations forces. In exceptional circumstances, the inability to conduct this coordination will not preclude the attack of targets beyond the FSCL. However, failure to do so may increase the risk of fratricide and could waste limited resources. (JP 3-09)

flight corridor

see air corridor

flight following

the task of maintaining contact with specified aircraft for the purpose of determining en route progress and/or flight termination (JP 1-02)

FLOT forward line of own troops

FM field manual

FOC flight operations center (graphics only)

force projection

the ability to project the military element of national power from the continental United States (CONUS) or another theater, in response to requirements for military operations. Force projection operations extend from mobilization and deployment of forces to redeployment to CONUS or home theater. (JP 3-0)

forward air controller (airborne) a specifically trained and qualified aviation officer who exercises control from the air of aircraft engaged in close air support of ground troops. The forward air controller (airborne) is normally an airborne extension of the tactical air control party. (JP 1-02)

forward arming and refueling point a temporary facility—organized, equipped, and deployed by an aviation commander, and normally located in the main battle area closer to the area where operations are being conducted than the aviation unit's combat service area—to provide fuel and ammunition necessary for the employment of aviation maneuver units in combat. The forward arming and refueling point permits combat aircraft to rapidly refuel and rearm simultaneously. (JP 1-02)

forward line of own troops a line that indicates the most forward positions of friendly forces in any kind of military operation at a specific time. The forward line of own troops (FLOT) normally identifies the forward location of covering and screening forces. The FLOT may be at, beyond, or short of the forward edge of the battle area. An enemy FLOT indicates the forward-most position of hostile forces. (JP 1-02) This manual does not use the Army definition of this term.

FRAGO fragmentary order

fratricide (Army) the unintentional killing or wounding of friendly personnel by friendly firepower (FM 3-0)

a specific area into which any weapon system may fire into without additional coordination with the establishing headquarters (JP 3-09)

FS fire support

free-fire area

FSCC fire support coordination center FSCL fire support coordination line

FSCM fire support coordinating measure

FSE fire support elementFSO fire support officer

FTR fighter (graphics only)

G2 assistant chief of staff, intelligence

 ${\bf G3}$ assistant chief of staff, operations

G4 assistant chief of staff, logistics

GCCS Global Command and Control SystemGCE ground combat element (graphics only)

GLO ground liaison officer

Global Command and Control System highly mobile, deployable command and control sys-

tem supporting forces for joint and multinational operations across the range of military operations, any time and anywhere in the world with compatible, interoperable, and integrated command, control, communications, computers, and intelligence sys-

tems (JP 1-02)

ground liaison officer

an officer trained in offensive air support activities. Ground liaison officers are normally organized into parties under the control of the appropriate Army commander to provide liaison to Air Force and naval units engaged in training and combat operations (JP 1-02)

H hour

HELO helicopter (graphics only)

HF high frequency

HIDACZ high-density airspace control zone

high-altitude missile engagement zone in air defense, that airspace of defined dimensions within which the responsibility for engagement of air threats

normally rests with high-altitude surface-to-air missiles (JP 3-52)

high-density airspace control zone airspace designated in an airspace control plan or air-

space control order, in which there is a concentrated employment of numerous and varied weapons and airspace users. A high-density airspace control zone has defined dimensions which usually coincide with geographical features or navigational aids. Access to a high-density airspace control zone is normally controlled by the maneuver commander. The maneuver commander can also direct a more restrictive weapons status within the high-density air-

space control zone. (JP 3-52)

HIMAD high-to-medium-altitude air defense

HMMWV high mobility multipurpose wheeled vehicle

hostile acts basic rules established by higher authority for defining and recog-

nizing hostile acts by aircraft, submarines, surface units, and ground forces that will be promulgated by the commanders of unified or specified commands, and by other appropriate command-

ers when so authorized (JP 1-02)

hostile criteria description of conditions under which an aircraft or a vehicle may

be identified as hostile for engagement purposes (see also hostile

acts and rules of engagement) (JP 1-02)

HQ headquarters

HRN helicopter radio net (graphics only)

IBCT interim brigade combat team

ID identification

identification, friend or foe a system using electromagnetic transmissions to which equipment carried by friendly forces automatically responds, for

example, by emitting pulses, thereby distinguishing themselves from enemy forces (JP 3-52)

IEW intelligence and electronic warfare

IFF identification, friend or foe

IJMS interim JTIDS message specification

IMETS Integrated Meteorological System

information operations actions taken to affect adversary information and information

systems while defending one's own information and information

systems (JP 3-13)

INFOSYS information systems

Intell intelligence (graphics only)

intelligence 1. the product resulting from the collection, processing, integra-

tion, analysis, evaluation, and interpretation of available information concerning foreign countries or areas; 2. information and knowledge about an adversary obtained through observation,

investigation, analysis, or understanding (JP 1-02)

intelligence preparation of the battlefield (Army) an analytical methodology employed as

part of intelligence planning to reduce uncertainties concerning the enemy, environment, and terrain for all types of operations. Intelligence preparation of the battlefield is conducted during mission planning to support the commander's decisionmaking and to form the basis for the direction of intelligence operations in support of current and future missions. It utilizes existing databases and identifies gaps in intelligence needed to determine the impact of the enemy, environment, and terrain on operations and presents this in an appropriate form to facilitate operational planning. It forms the basis for situation development. (FM 1-02)

IO information operations

IP Internet Protocol

ISR intelligence, surveillance, and reconnaissance

IWEDA Integrated Weather Effects Decision Aid (graphics only)

JAOC joint air operations center

JFACC joint force air component commander

JFC joint force commander

JFLCC joint force land component commander

JFSOC joint force special operations commander (graphics only)

JFSOCC joint force special operations component commander

JOA joint operations area

JOC joint operations center

joint air operations

air operations performed with air capabilities/forces made available by components in support of the joint force commander's operation or campaign objectives, or in support of other components of the joint force (JP 3-56.1)

joint air operations center a jointly staffed facility established for planning, directing, and executing joint air operations in support of the joint force commander's operation or campaign objectives (JP 3-56.1)

joint engagement zone

in air defense, that airspace of defined dimensions within which multiple air defense systems (surface-to-air missiles and aircraft) are simultaneously employed to engage air threats (JP 3-52)

joint force air component commander the commander within a unified command, subordinate unified command, or joint task force responsible to the establishing commander for making recommendations on the proper employment of assigned, attached, and/or made available for tasking air forces; planning and coordinating air operations; or accomplishing such operational missions as may be assigned. The joint force air component commander is given the authority necessary to accomplish missions and tasks assigned by the establishing commander. (JP 1-02)

joint force commander

a general term applied to a combatant commander, subunified commander, or joint task force commander authorized to exercise combatant command (command authority) or operational control over a joint force (JP 0-2)

joint force land component commander the commander within a unified command, subordinate unified command, or joint task force responsible to the establishing commander for making recommendations on the proper employment of assigned, attached, and/or made available for tasking land forces; planning and coordinating land operations; or accomplishing such operational missions as may be assigned. The joint force land component commander is given the authority necessary to accomplish missions and tasks assigned by the establishing commander. (JP 3-0)

joint force special operations component commander the commander within a unified command, subordinate unified command, or joint task force responsible to the establishing commander for making recommendations on the proper employment of assigned, attached, and/or made available for tasking special operations forces and assets; planning and coordinating special operations; or accomplishing such operational missions as may be assigned. The joint force special operations component commander is given the authority necessary to accomplish missions and tasks assigned by the establishing commander. (JP 3-0)

> JP joint publication

JRFL joint restricted frequency list

JSTARS Joint Surveillance Target Attack Radar System

JTIDS Joint Tactical Information Distribution System **JTMD** joint theater missile defense

JUH-MTF Joint User Handbook-Message Text Formats

JWARN Joint Warning and Reporting Network

LAAD low-altitude air defense

LAN local area network

land forces personnel, weapon systems, vehicles, and support elements opera-

ting on land to accomplish assigned missions and tasks (JP 1-02)

LC line of contact (graphics only)

LD line of departure (graphics only)

liaison that contact or intercommunication maintained between elements

of military forces or other agencies to ensure mutual under-

standing and unity of purpose and action (JP 3-08)

LLTR low-level transit route

LNO liaison officer

low-altitude missile engagement zone in air defense, that airspace of defined dimensions

within which the responsibility for engagement of air threats normally rests with low- to medium-altitude surface-to-air missiles

(JP 3-52)

low-level transit route a temporary corridor of defined dimensions established in the for-

ward area to minimize the risk to friendly aircraft from friendly

air defenses or surface forces (JP 3-52)

LZ landing zone (graphics only)

MACCS Marine Air Command and Control System

MAGTF Marine air-ground task force

MARFOR Marine forces (graphics only)

Marine air command and control system a system that provides the aviation combat

element commander with the means to command, coordinate, and control all air operations within an assigned sector and to coordinate air operations with other Services. It is composed of command and control agencies with communications-electronics equipment that incorporates a capability from manual through

semiautomatic control. (JP 1-02)

Marine air-ground task force a task organization of Marine forces (division, aircraft wing,

and service support groups) under a single command and structured to accomplish a specific mission. The Marine airground task force (MAGTF) components will normally include command, aviation combat, ground combat, and combat service support elements (including Navy Support Elements). Two types of Marine air-ground task forces which can be task organized are the Marine expeditionary unit and Marine expeditionary force.

(JP 1-02)

MARLO Marine liaison officer

MATC Marine air traffic control

MAW Marine air wing

MCOO modified combined obstacle overlay (graphics only)

MCS Maneuver Control SystemMECH mechanized (graphics only)

MEF Marine expeditionary force (graphics only)

METT-TC mission, enemy, terrain and weather, troops and support avail-

able, time available, civil considerations

MI military intelligence

MIJI meaconing, interference, jamming, and intrusion

MIL-STD military standard

minimum attack altitude the lowest altitude determined by the tactical use of weapons, ter-

rain consideration, and weapons effects that permits the safe conduct of an air attack and/or minimizes effective enemy counter-

action (JP 1-02)

minimum crossing altitude the lowest altitude at certain radio fixes at which an aircraft must

cross when proceeding in the direction of a higher minimum en

route instrument flight rules altitude (JP 1-02)

minimum-risk route a temporary corridor of defined dimensions recommended for use

by high-speed, fixed-wing aircraft that presents the minimum known hazards to low-flying aircraft transiting the combat zone

(JP 3-52)

MLRS Multiple Launch Rocket System

MRR minimum-risk route

MTF message text format

multinational operations a collective term to describe military actions conducted by forces

of two or more nations, usually undertaken within the structure

of a coalition or alliance (JP 0-2)

NAI named area of interest

NALE naval and amphibious liaison element

NATO North Atlantic Treaty Organization

NAVAID navigational aid

NAVFOR Navy forces (graphics only)

NAVSOC Navy special operations commander (graphics only)

NBC nuclear, biological, and chemical

NFA no-fire area

NFO naval flight officer

NG National Guard (graphics only)

NGFO naval gunfire officer

NIMA National Imagery and Mapping Agency

NO. numbered (graphics only)

no-fire area a land area designated by the appropriate commander into which

fires or their effects are prohibited (JP 3-09)

NSFSN naval surface fire support net (graphics only)

NTACS Navy Tactical Air Control System

OBJ objective (graphics only)

a position from which military observations are made, or fire observation post

directed and adjusted, and which possesses appropriate communi-

cations; may be airborne (JP 1-02)

OCT October

offensive counterair attack operations offensive action in support of the offensive

counterair mission against surface targets which contribute to the enemy's air power capabilities. The objective of attack operations is to prevent the hostile use of aircraft and missile forces by attacking targets such as missile launch sites, airfields, naval vessels, command and control nodes, munitions stockpiles, and supporting infrastructure. Attack operations may be performed by fixed- or rotary-wing aircraft, surface-to-surface weapons, special operations forces, or ground forces. (JP 3-01)

officer in tactical command in maritime usage, the senior officer present eligible to assume command, or the officer to whom the senior officer has delegated

tactical command (JP 1-02)

operational control

command authority that may be exercised by commanders at any echelon at or below the level of combatant command. Operational control is inherent in combatant command (command authority) and may be delegated within the command. When forces are transferred between combatant commands, the command relationship the gaining commander will exercise (and the losing commander will relinquish) over these forces must be specified by the Secretary of Defense. Operational control is the authority to perform those functions of command over subordinate forces involving organizing and employing commands and forces, assigning tasks, designating objectives, and giving authoritative direction necessary to accomplish the mission. Operational control includes authoritative direction over all aspects of military operations and joint training necessary to accomplish missions assigned to the command. Operational control should be exercised through the commanders of subordinate organizations. Normally this authority is exercised through subordinate joint force commanders and Service and/or functional component commanders. Operational control normally provides full authority to organize commands and forces and to employ those forces as the commander in operational control considers necessary to accomplish assigned missions; it does not, in and of itself, include authoritative direction for logistics or matters of administration, discipline, internal organization, or unit training. (JP 0-2)

OPLAN operation plan

OPORD operation order

Ops operations (graphics only)
OTC officer in tactical command

PADIL Patriot digital information link

PL phase line (graphics only)

positive control a method of airspace control that relies on positive identification,

tracking, and direction of aircraft within an airspace, conducted with electronic means by an agency having the authority and

responsibility therein (JP 3-52)

procedural control a method of airspace control which relies on a combination of pre-

viously agreed and promulgated orders and procedures (JP 3-52)

PZ pickup zone (graphics only)

RAH 66 Comanche armed reconnaissance helicopter

real time pertaining to the timeliness of data or information which has

been delayed only by the time required for electronic communication. This implies that there are no noticeable delays. (JP 1-02)

reconnaissance a mission undertaken to obtain by visual observation or other

detection methods, information about the activities and resources of an enemy or potential enemy, or to secure data concerning the meteorological, hydrographic, or geographic characteristics of a

particular area (JP 1-02)

REP representative (graphics only)

restricted operations area airspace of defined dimensions, designated by the airspace control

authority, in response to specific operational situations/requirements within which the operation of one or more airspace

users is restricted (JP 3-52)

restrictive fire line a line established between converging friendly surface forces that

prohibits fires or their effects across that line (JP 3-09)

RFA restrictive fire area

RFL restrictive fire line

RGT regiment (graphics only)

ROA restricted operations area

ROE rules of engagement

ROZ restricted operations zone

rules of engagement directives issued by competent military authority which delineate

the circumstances and limitations under which United States forces will initiate and/or continue combat engagement with other

forces encountered (JP 1-02)

S2 battalion or brigade intelligence staff officer

S3 battalion or brigade operations staff officer

S4 battalion or brigade logistics staff officer

SAAFR standard use Army aircraft flight route

SACC supporting arms coordination center

SADC sector air defense commander
SALT supporting arms liaison team

SAR search and rescue

SAWC sector air warfare coordinator

SCC sea combat commander (graphics only)

scheme of maneuver description of how arrayed forces will accomplish the com-

mander's intent. It is the central expression of the commander's concept for operations and governs the design of supporting plans

or annexes (FM 5-0)

selective identification feature a capability that, when added to the basic identification friend or foe system, provides the means to transmit, receive, and

display selected coded replies (JP 1-02)

SEMA special electronic mission aircraft

SFCP shore fire control party

short-range air defense engagement zone in air defense, that airspace of defined dimen-

sions within which the responsibility for engagement of air threats normally rests with short-range air defense weapons. It may be established within a low- or high-altitude missile engage-

ment zone. (JP 3-52)

SIF selective identification feature

SLO space liaison officer

SOC special operations command

SOCCE special operations command and control element

SOCOORD special operations coordination element

SOF special operations forces

SOLE special operations liaison element

SOP standing operating procedure

SPINS special instructions

SPT support (graphics only)

standard use Army aircraft flight route routes established below the coordinating altitude

to facilitate the movement of Army aviation assets. Routes are normally located in the corps through brigade rear areas of operation and do not require approval by the airspace control author-

ity. (JP 3-52)

STRATLAT strategic liaison team (graphics only)

STWC strike warfare commander

surveillance the systematic observation of aerospace, surface or subsurface

areas, places, persons, or things, by visual, aural, electronic,

photographic or other means (JP 1-02)

SUWC surface warfare commander

TAAMDCOORD theater Army air and missile defense coordinator

TAC tactical or terminal air controller or tactical command post, or

terminal access controller

TAC(A) tactical air coordinator (airborne)

TACC tactical air command center (USMC)

TACOPDAT tactical operational data

TACP tactical air control party

TACS Theater Air Control System (USAF)

tactical air command center the Marine Corps' tactical air command center (TACC) is the

senior agency of the Marine air command and control system

(MACCS) (JP 1-02)

tactical air control center the principal air operations installation (ship-based) from which

all aircraft and air warning functions of tactical air operations are

controlled (JP 1-02)

tactical air control party a subordinate operational component of a tactical air control sys-

tem designed to provide air liaison to land forces and for the con-

trol of aircraft (JP 1-02)

tactical air direction center an air operations installation under the overall control of the

tactical air control center (afloat) or tactical air command center, from which aircraft and air warning service functions of tactical

air operations in an area of concern are directed (JP 1-02)

tactical air operations center the principal air control agency of the US Marine air command

and control system responsible for airspace control and management. It provides real-time surveillance, direction, positive control, and navigational assistance for friendly aircraft. It performs real-time direction and control of all antiair warfare operations, to include manned interceptors and surface-to-air weapons. It is

subordinate to the tactical air command center. (JP 1-02)

tactical control command authority over assigned or attached forces or com-

mands, or military capability or forces made available for tasking, that is limited to the detailed direction and control of movements or maneuvers within the operational area necessary to accomplish missions or tasks assigned. Tactical control is inherent in operational control. Tactical control may be delegated to, and exercised at any level at or below the level of combatant command. When forces are transferred between combatant commands, the command relationship the gaining commander will exercise (and the losing commander will relinquish) over these forces must be specified by the Secretary of Defense. Tactical control provides sufficient authority for controlling and directing the application of force or tactical use of combat support assets within the assigned mission or task. (JP 0-2)

TADC tactical air direction center

TADIL tactical digital information link

TAGS Theater Air-Ground System

TAIS Tactical Airspace Integration System

TALCE tactical airlift control element (graphics only)

TALO theater airlift liaison officer

TAMD theater air and missile defense

TAOC tactical air operations center (USMC)

TAR tactical air radio (graphics only)

TBM tactical ballistic missile

TBMCS Theater Battle Management Core System

TBP to be published

TCP Transmission Control Protocol

terrain flight flight close to the Earth's surface during which airspeed, height, and/or altitude are adapted to the contours and cover of the

ground in order to avoid enemy detection and fire (JP 1-02)

TF task force (graphics only)

theater airlift that airlift assigned or attached to a combatant command (command authority) of a combatant commander other than Com-

mand authority) of a combatant commander other than Commander in Chief, US Transportation Command, which provides air movement and delivery of personnel and equipment directly into objective areas through air landing, airdrop, extraction, or other delivery techniques; and the air logistic support of all theater forces, including those engaged in combat operations, to meet specific theater objectives and requirements. (JP 3-17) This

manual does not use the Army definition of this term.

theater airlift liaison officer an officer specially trained to implement the theater air control system and to control tactical airlift assets. Theater airlift liaison officers are highly qualified, rated airlift officers with tactical (airdrop) airlift experience and assigned duties, supporting US Army units. (JP 3-17)

theater of operations

a subarea within a theater of war defined by the geographic combatant commander required to conduct or support specific combat operations. Different theaters of operations within the same theater of war will normally be geographically separate and focused on different enemy forces. Theaters of operations are usually of significant size, allowing for operations over extended periods of time. (JP 3-0)

TI tactical Internet

TLAM Tomahawk land-attack missile

TOC tactical operations center

TOE table of organization and equipment

TRADOC Training and Doctrine Command (Army)

TTP tactics, techniques, and procedures

UAP unit airspace plan

UAV unmanned aerial vehicle

UHF ultrahigh frequency

United States message text format a program designed to enhance joint and combined

combat effectiveness through standardization of message formats, data elements, and information exchange procedures. Standard message formats with standard information content provides all tactical commanders at the joint interface with a common playing

field and a common language. (MIL-STD-6040)

unmanned aerial vehicle a

a powered, aerial vehicle that does not carry a human operator, uses aerodynamic forces to provide vehicle lift, can fly autonomously or be piloted remotely, can be expendable or recoverable, and can carry a lethal or nonlethal payload. Ballistic or semiballistic vehicles, cruise missiles, and artillery projectiles are not considered unmanned aerial vehicles. (JP 3-55.1)

US United States

USAF United States Air Force

USMC United States Marine Corps

USMTF United States message text format

USWC undersea warfare commander

VHF very high frequency

VMF variable message format

weapon control status weapons control of surface-to-air units is expressed as a status

declared for a particular area and time (JP 3-01)

weapon engagement zone in air defense, airspace of defined dimensions within which the

responsibility for engagement of air threats normally rests with a particular weapon system. See also fighter engagement zone, high-altitude missile engagement zone, low-altitude missile engagement zone, short-range air defense engagement zone, and joint engagement zone. (JP 3-52)

weapons free in air defense, a weapon control order imposing a status whereby

weapons systems may be fired at any target not positively recognized as friendly. (See also weapons hold, weapons tight, and air

defense weapon control status.) (JP 1-02)

weapons free zone an air defense zone established for the protection of key assets or

facilities, other than air bases, where weapon systems may be fired at any target not positively recognized as friendly (JP 3-52)

weapons hold in air defense, a weapon control order imposing a status whereby

weapons systems may only be fired in self-defense or in response to a formal order. (See also weapons free, weapons tight, and air

defense weapon control status.) (JP 1-02)

weapons tight in air defense, a weapon control order imposing a status whereby

weapons systems may be fired only at targets recognized as

hostile. (JP 1-02)

WEZ weapon engagement zone

WFZ weapons free zone (graphics only)

WOC wing operations center (USAF)